



TITLE: METHOD AND APPARATUS FOR ELIMINATING DEAD ZONE IN PHASE LOCKED LOOPS
USING BINARY QUANTIZED PHASE DETECTORS

INVENTOR(S): Sudeep Bhoja, John S. Wang and Christopher R. Cole
USSN: 09/954,453

Attorney Docket #: BBNT-T013

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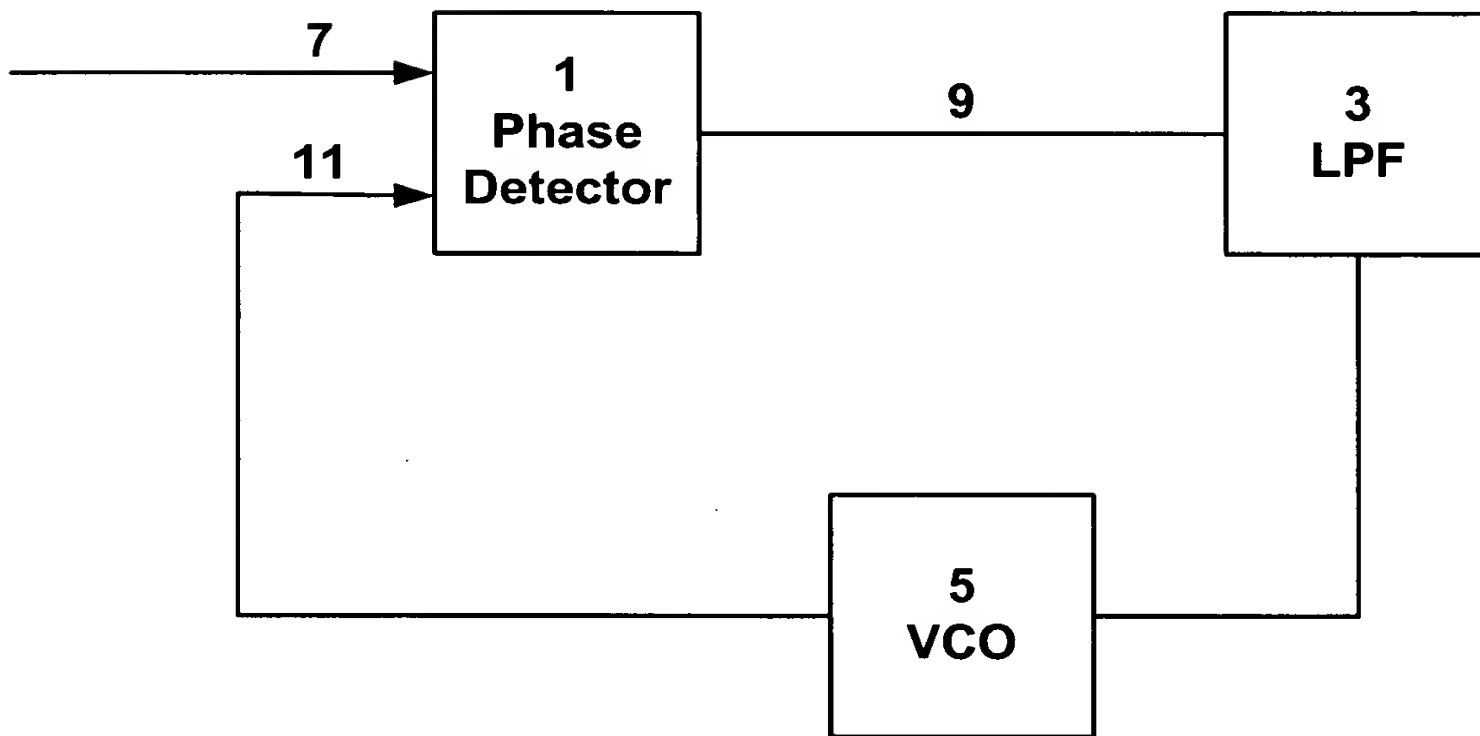


FIG. 1 (Prior Art)



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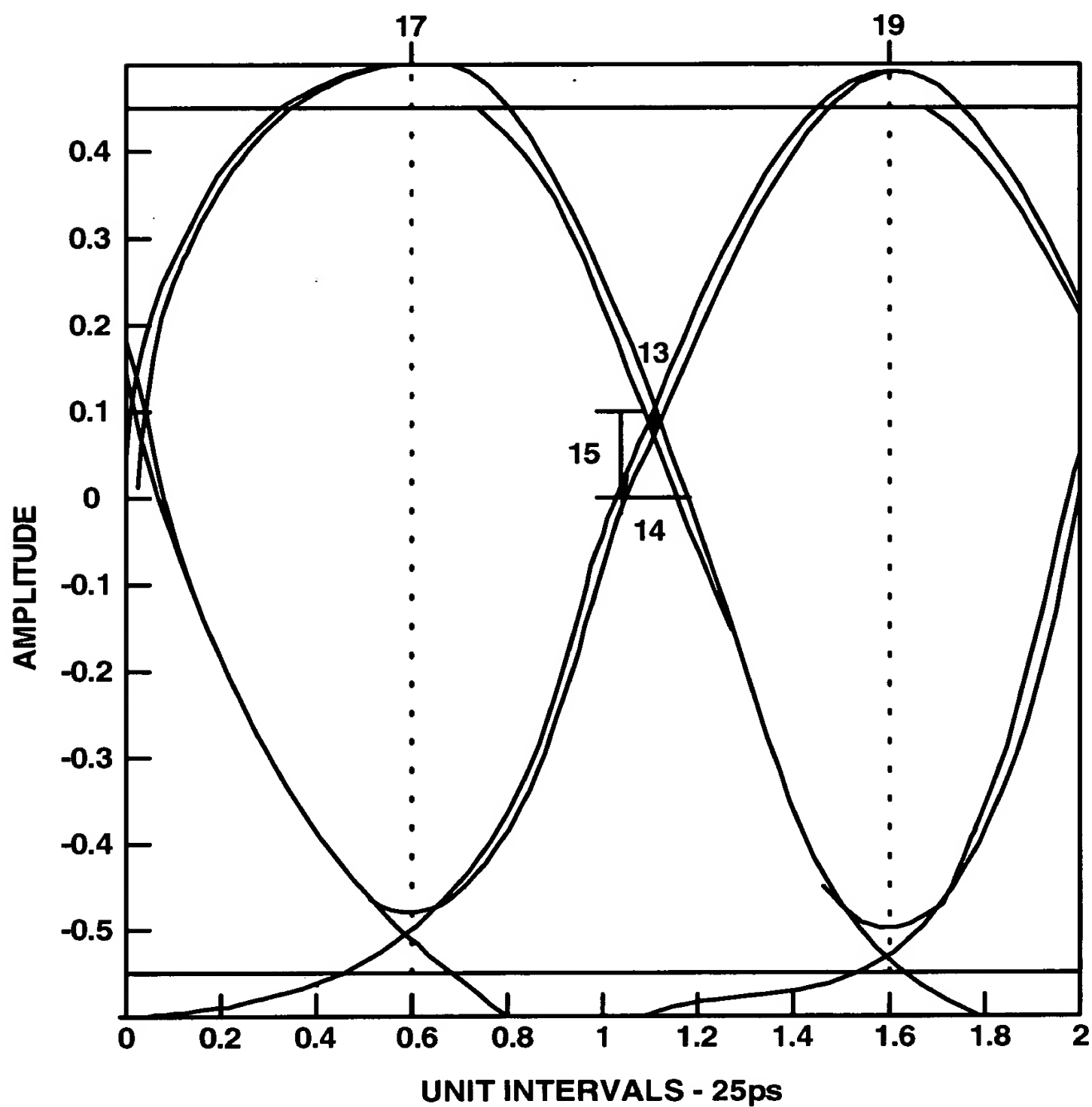


FIG. 2 (Prior Art)



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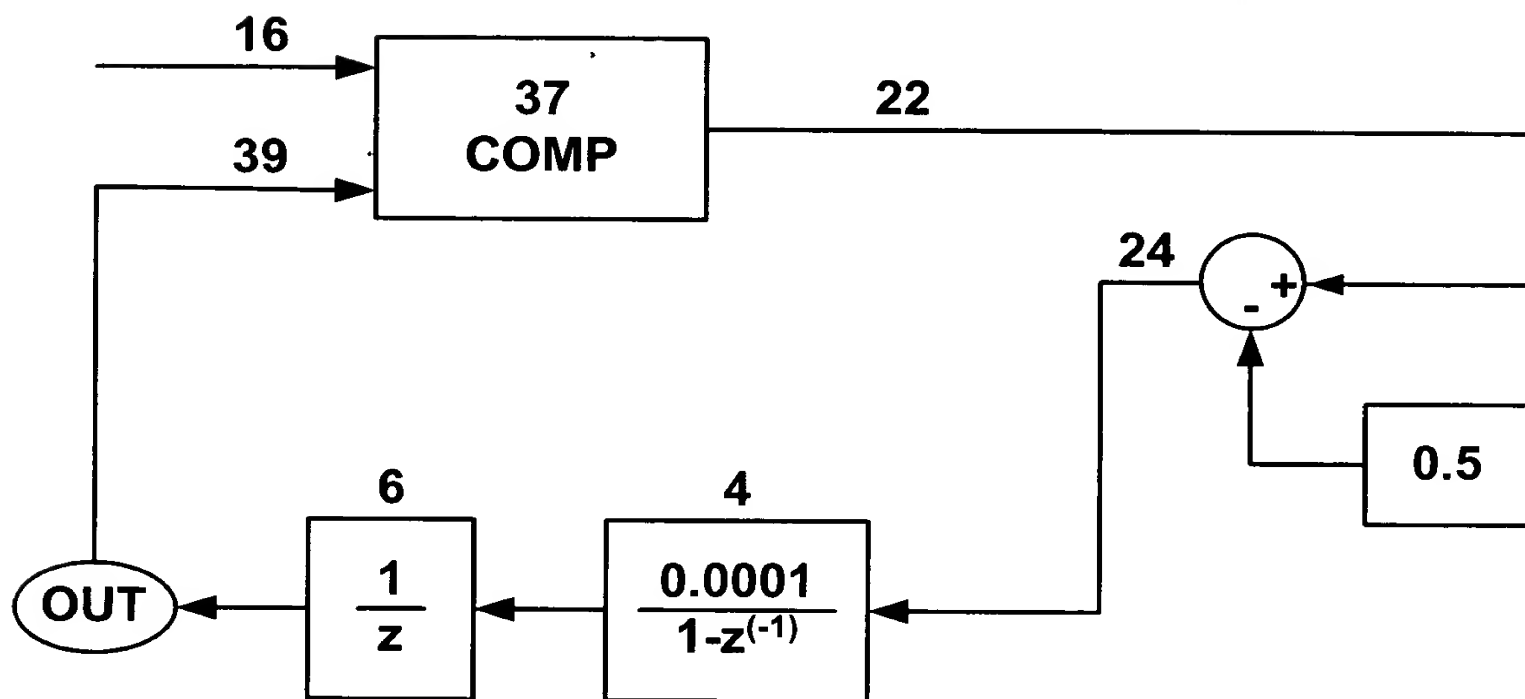
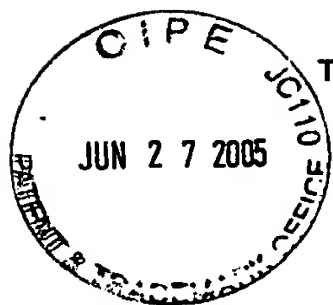


FIG. 3



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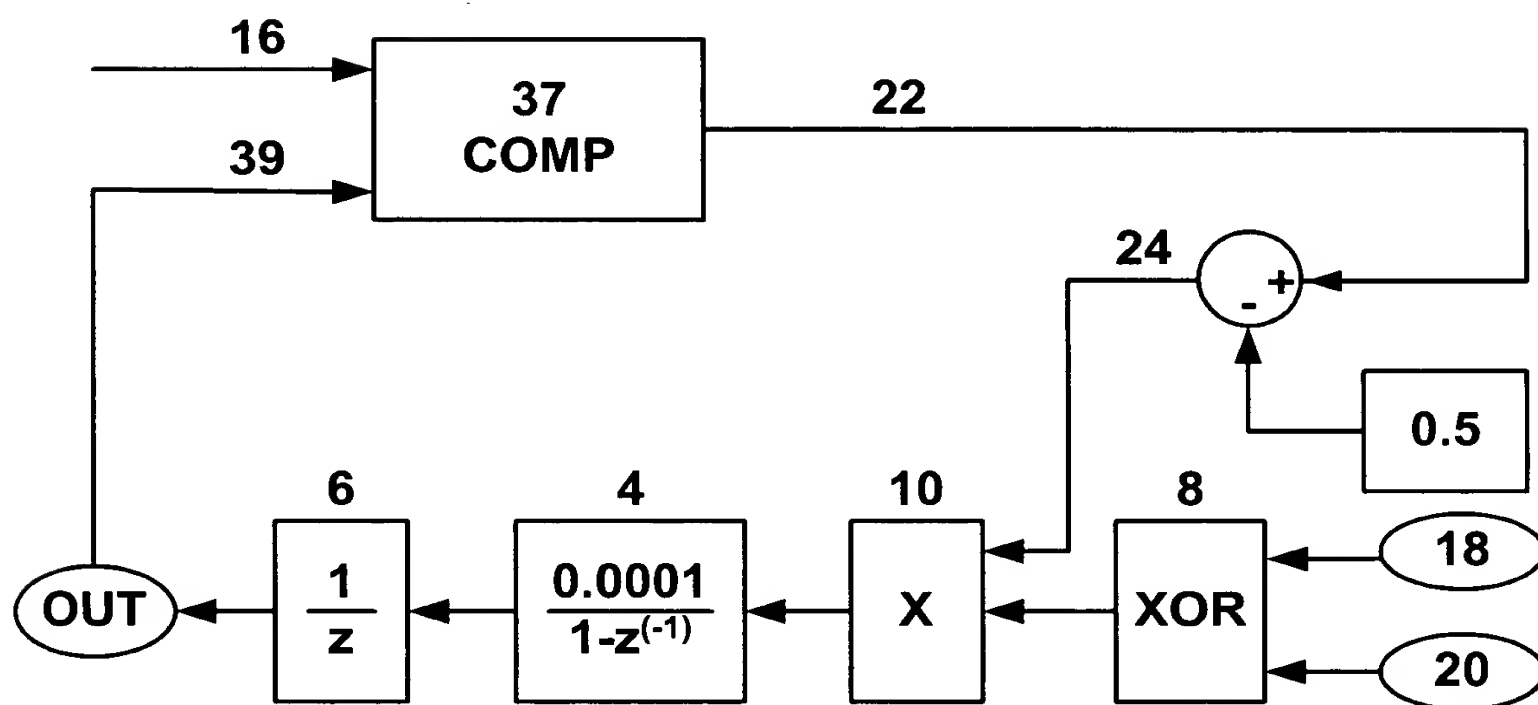
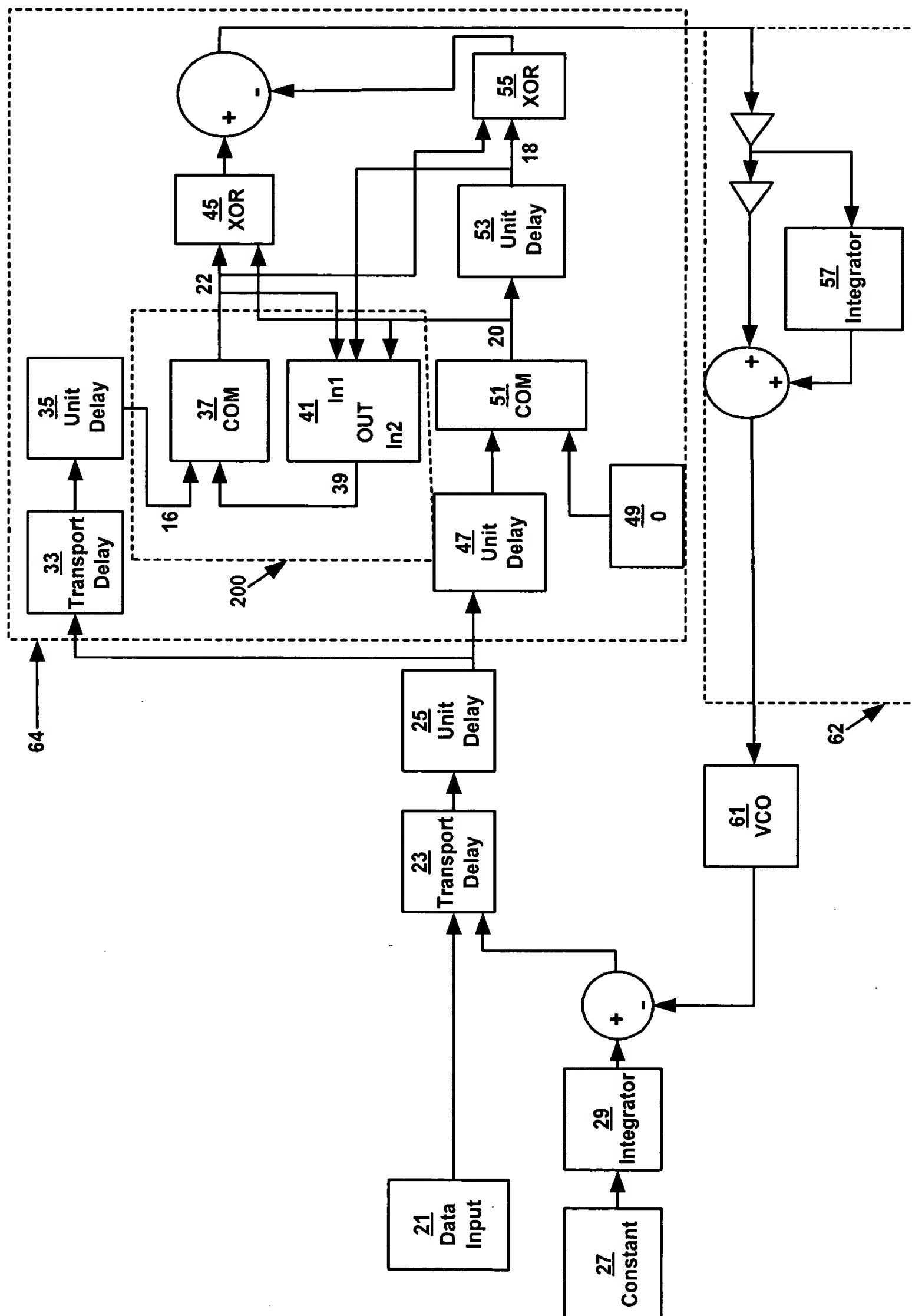
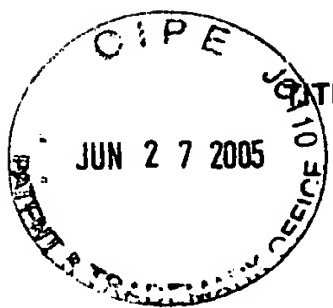


FIG. 4





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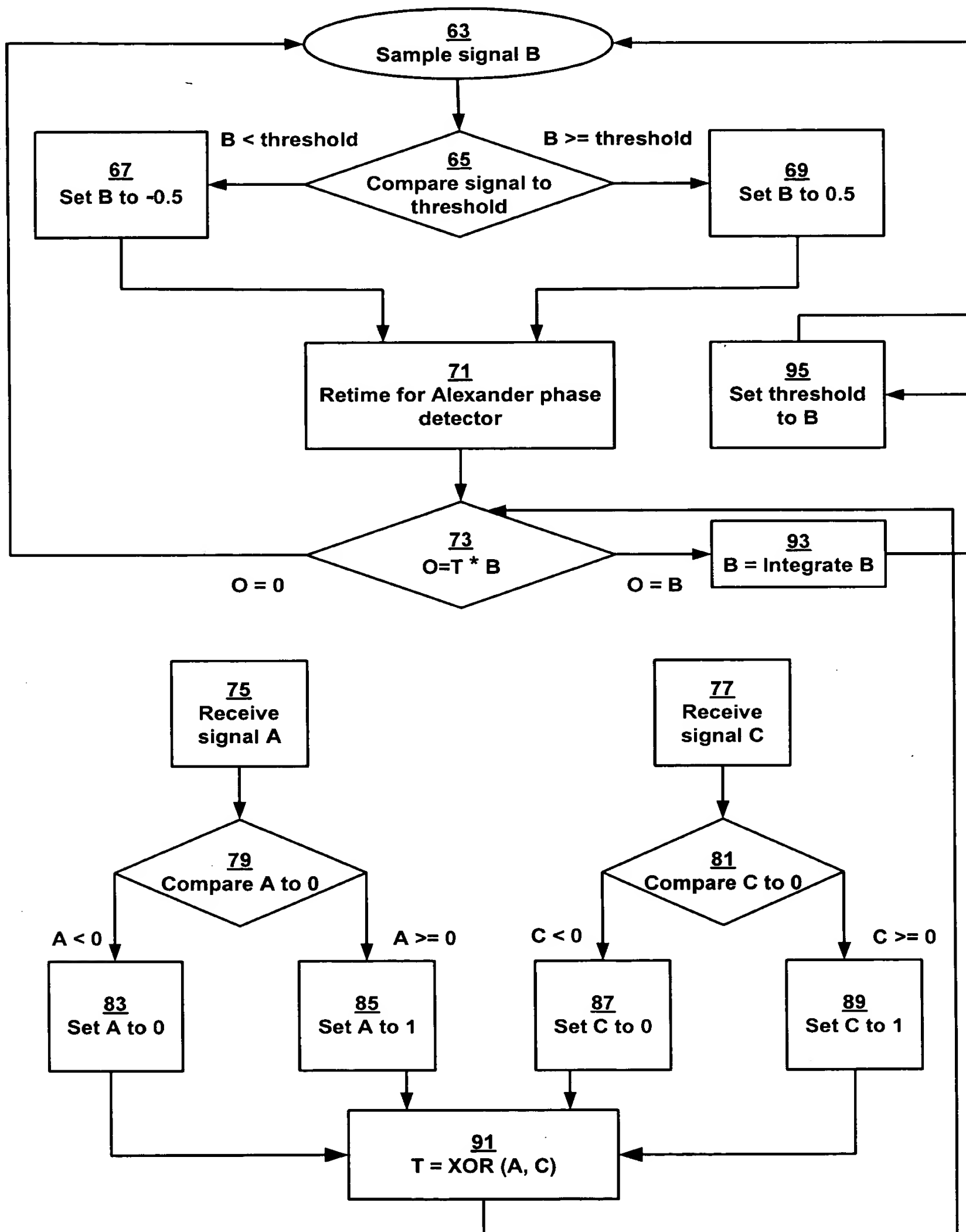


FIG. 6